

**REMARKS**

The Official Action mailed October 22, 2002 has been received and its contents carefully noted. This response is filed within three months of the mailing date of the Official Action and therefore is believed to be timely without extension of time. Accordingly, Applicant respectfully submits that this response is being timely filed.

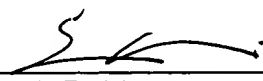
Applicants note with appreciation the consideration of the Information Disclosure Statement filed on December 20, 2000.

Claims 1-10 were pending in the present application. Applicant notes with appreciation the indication in paragraph 4 of the Official Action that claims 3 and 6-10 are directed to allowable subject matter. Independent Claim 1 has been amended herewith to include the allowable features of claim 3 and independent claim 5 has been amended to include the allowable features of claim 10. Claims 3, 8 and 10 have accordingly been canceled. Claims 1-2, 4-7 and 9 are now pending in the present application, of which claims 1 and 5 are independent and all claims are now believed to be in condition for allowance.

Paragraph 2 of the Official Action rejects claims 1, 2, 4, and 5 as obvious based on the combination of U.S. Patent 5,256,837 to Pak and U.S. Patent 5,647,007 to Wooderson. As noted above, independent Claim 1 has been amended to include the allowable features of claim 3 and independent claim 5 has been amended to include the allowable features of claim 10. Accordingly, this rejection is believed to be overcome and favorable reconsideration is requested.

Should the Examiner believe that anything further would be desirable to place this application in better condition for allowance, the Examiner is invited to contact Applicant's undersigned attorney at the telephone number listed below.

Respectfully submitted,

  
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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

Please cancel claims 3, 8 and 10 and amend claims 1 and 5 as follows:

1. (Amended) A speaker diaphragm having a generally cone shape, comprising:

a plurality of projections forming a periodical structure along a circumferential direction in a slanted area of the speaker diaphragm, each projection extending radially from a central area to an edge portion and curving along the circumferential direction as the speaker diaphragm comes near to the edge portion; and

a plurality of recesses formed between the plurality of projections, wherein at least one surface is curved in an area from each projection to each recess, and

wherein the odd number of projections are formed as counted along the circumferential direction, and the projection has a cross section like a screw propeller.

5. (Amended) A speaker diaphragm having a general cone shape, the speaker diaphragm having projections and recesses forming a screw propeller shape to give a force along the circumferential direction to air flowing toward a central area of the speaker diaphragm,

wherein the speaker diaphragm is manufacturing by ejection molding of material containing polypropylene as a main composition.

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